

Propylux® SD-A

Polypropylene
Westlake Plastics Company

Message:

PROPYLUX® SD-A (Static-dissipative Polypropylene) Non-carbon-filled, permanently static-dissipative material, with good chemical resistance and mechanical properties. This material is light weight, weldable, easily machined and fabricated, available in natural or black color, and has moderate transparency at thinner gauges.

- Advantages:
- Very good chemical resistance
 - Easily machined
 - Cost effective
 - Durable
 - Lightweight
 - Weldable
- Applications:
- Semiconductor/electronic components
 - Automotive assembly equipment
 - Business machine manufacturing components
 - Explosives handling equipment

General Information			
Filler / Reinforcement	Filler		
Additive	Antistatic		
Features	Antistatic		
	Durable		
	Good Chemical Resistance		
	Machinable		
	Weldable		
Uses	Automotive Applications		
	Business Equipment		
	Electrical Parts		
	Electrical/Electronic Applications		
Appearance	Black		
	Clear/Transparent		
	Natural Color		
	Yellow		
Forms	Film		
	Rod		
	Sheet		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.938	g/cm ³	ASTM D792

Water Absorption (24 hr)	1.0	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	72		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	30.3	MPa	ASTM D638
Tensile Elongation (Break)	200	%	ASTM D638
Flexural Modulus	1380	MPa	ASTM D790
Flexural Strength	42.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	75	J/m	ASTM D256
Unnotched Izod Impact	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	108	°C	
1.8 MPa, Unannealed	57.2	°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+9 to 1.0E+11	ohms	ASTM D257
Volume Resistivity	1.0E+9 to 1.0E+11	ohms·cm	ASTM D257
Static Decay	< 0.3	sec	MIL B-81705
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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